

# Product datasheet

Specifications



## Switch disconnecter, ComPacT NSX160NA, 4 poles, fixed, thermal current Ith 160A

C164160S

### Main

|                                             |                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | ComPacT                                                                                                                                                                                                                                                                                                                          |
| Product name                                | ComPacT NSX                                                                                                                                                                                                                                                                                                                      |
| Device short name                           | NSX160NA                                                                                                                                                                                                                                                                                                                         |
| Product or component type                   | Switch disconnecter                                                                                                                                                                                                                                                                                                              |
| Device application                          | Distribution                                                                                                                                                                                                                                                                                                                     |
| Poles description                           | 4P                                                                                                                                                                                                                                                                                                                               |
| [Ith] conventional free air thermal current | 160 A at 50 °C                                                                                                                                                                                                                                                                                                                   |
| [Ie] rated operational current              | AC-22A: 160 A AC 50/60 Hz 220...690 V<br>AC-23A: 160 A AC 50/60 Hz 220...690 V<br>DC-22A: 160 A DC 250 V 1 pole<br>DC-22A: 160 A DC 500 V 2 poles in series<br>DC-23A: 160 A DC 250 V 1 pole<br>DC-23A: 160 A DC 500 V 2 poles in series<br>DC-22A: 160 A DC 750 V 3 poles in series<br>DC-23A: 160 A DC 750 V 3 poles in series |
| [Ue] rated operational voltage              | 690 V AC 50/60 Hz<br>750 V DC 3 poles in series<br>500 V DC 2 poles in series<br>250 V DC 1 pole                                                                                                                                                                                                                                 |
| Network type                                | AC<br>DC                                                                                                                                                                                                                                                                                                                         |
| Suitability for isolation                   | Yes conforming to EN/IEC 60947-3                                                                                                                                                                                                                                                                                                 |
| Utilisation category                        | AC-22A<br>AC-23A<br>DC-22A<br>DC-23A                                                                                                                                                                                                                                                                                             |
| Breaking capacity code                      | NA                                                                                                                                                                                                                                                                                                                               |
| Contact position indicator                  | Yes                                                                                                                                                                                                                                                                                                                              |
| Visible break                               | No                                                                                                                                                                                                                                                                                                                               |
| Mounting mode                               | Fixed                                                                                                                                                                                                                                                                                                                            |
| [Icw] rated short-time withstand current    | 2.5 kA during 1 s<br>2.5 kA during 3 s<br>0.96 kA during 20 s                                                                                                                                                                                                                                                                    |
| [Icm] rated short-circuit making capacity   | 330 kA with upstream protection circuit breaker<br>3.6 kA switch-disconnector alone                                                                                                                                                                                                                                              |
| Control type                                | Toggle                                                                                                                                                                                                                                                                                                                           |
| [Ui] rated insulation voltage               | 800 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                                                             |

### Complementary

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting support      | Backplate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Upside connection     | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Downside connection   | Front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Connection pitch      | 35 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mechanical durability | 40000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Electrical durability | AC-22A: 30000 cycles 440 V AC 50/60 Hz In/2<br>AC-23A: 30000 cycles 440 V AC 50/60 Hz In/2<br>AC-22A: 15000 cycles 440 V AC 50/60 Hz In<br>AC-23A: 15000 cycles 440 V AC 50/60 Hz In<br>AC-22A: 10000 cycles 690 V AC 50/60 Hz In/2<br>AC-23A: 10000 cycles 690 V AC 50/60 Hz In/2<br>AC-22A: 5000 cycles 690 V AC 50/60 Hz In<br>AC-23A: 5000 cycles 690 V AC 50/60 Hz In<br>DC-22A: 10000 cycles 250 V DC In/2 (1 pole)<br>DC-23A: 10000 cycles 250 V DC In/2 (1 pole)<br>DC-22A: 5000 cycles 500 V DC In (2 poles in series)<br>DC-23A: 5000 cycles 500 V DC In (2 poles in series) |
| Width (W)             | 140 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Height (H)            | 161 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Depth (D)             | 86 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Net weight            | 2.2 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Standards             | EN/IEC 60947-1<br>EN/IEC 60947-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| IP degree of protection               | IP40 conforming to IEC 60529 |
| IK degree of protection               | IK07 conforming to IEC 62262 |
| Electrical shock protection class     | Class II                     |
| Pollution degree                      | 3 conforming to IEC 60664-1  |
| Ambient air temperature for operation | -25...70 °C                  |
| Ambient air temperature for storage   | -50...85 °C                  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 14.000 cm |
| Package 1 Width              | 14.800 cm |
| Package 1 Length             | 19.500 cm |
| Package 1 Weight             | 2.409 kg  |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 6         |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 14.855 kg |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 48        |

|                  |            |
|------------------|------------|
| Package 3 Height | 43.000 cm  |
| Package 3 Width  | 80.000 cm  |
| Package 3 Length | 120.000 cm |
| Package 3 Weight | 128.330 kg |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 175 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |
| Carbon footprint of the manufacturing phase [A1 to A3] | 13 kg CO2 eq.                                 |
| Carbon footprint of the distribution phase [A4]        | 0.7 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0.2 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 157 kg CO2 eq.                                |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 4 kg CO2 eq.                                  |

## Use Better



### Materials and Substances

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                    |
| Packaging without single use plastic   | Yes                                                                                    |
| SCIP Number                            | 3874e08b-fcb8-4aa9-87c4-d36abebf2833                                                   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| Halogen-free status                    | Product contains halogen above thresholds                                              |
| PVC free                               | Yes                                                                                    |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 54                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Offer Marketing Illustration

Product benefits / Features

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ComPacT NSX NA  
Switch Disconnectors



Protection begins with prevention

Designed to prevent an electrical fire through integrated earth leakage protection with preventive maintenance thanks to its Everlink power connections.



Maximize power availability

By providing corrective, preventive, and predictive maintenance for asset management thanks to our advanced MicroLogic trip units.



Connectivity

Designed to connect to EcoStruxure Power, an IoT-connected architecture for improving every aspect of your power distribution system.



Offer Marketing Illustration

Product benefits / Features

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## ComPacT NSX NA

### Range Accessories



Wireless auxiliary contact



Short terminal shield



Interphase barriers



Long terminal shield



Rotary handles



Standard auxiliary contact



MN undervoltage release



MX shunt release



Standard motor mechanism module

Offer Marketing Illustration

Product benefits / Features



### ComPacT NSX NA

Technical Benefits

- Nominal current: 16 to 630 A and 9 breaking capacities for the 2 sizes of circuit breakers
- 1, 2, 3, and 4 pole versions available
- Large range of electronic and thermal-magnetic protections
- Plug and ready wiring system and communicating accessories
- Integrated earth leakage protection via MicroLogic Vigi (earth leakage circuit breaker - ELCB)
- Advanced trip unit with integrated power metering: I, U, P, E, THD, f, CosPhi

Technical Illustration

Assembly's dimensions

